

Charles F Delwiche

List of Publications by Year in descending order

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papers

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47006

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101
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101
docs citations

101
times ranked

9727
citing authors

#	ARTICLE	IF	CITATIONS
1	Using rDNA sequences to define dinoflagellate species. PLoS ONE, 2022, 17, e0264143.	2.5	8
2	A genetic element in the SARS-CoV-2 genome is shared with multiple insect species. Journal of General Virology, 2021, 102, .	2.9	12
3	The role of ion-transporting proteins in the evolution of salt tolerance in charophyte algae. Journal of Phycology, 2021, 57, 1014-1025.	2.3	7
4	Salinity-induced Changes in Gene Expression in the Streptophyte Alga <i>Chara</i> : The Critical Role of a Rare Na ⁺ -ATPase. Journal of Phycology, 2021, 57, 1004-1013.	2.3	6
5	Microbial biodiversity: A newly isolated cyanobacterium sheds light on the evolution of photosynthesis. Current Biology, 2021, 31, R843-R845.	3.9	3
6	Neoproterozoic origin and multiple transitions to macroscopic growth in green seaweeds. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2551-2559.	7.1	85
7	Evolution of Photorespiratory Glycolate Oxidase among Archaeplastida. Plants, 2020, 9, 106.	3.5	9
8	Reconstructing trait evolution in plant evo-devo studies. Current Biology, 2019, 29, R1110-R1118.	3.9	47
9	Microbial Diversity in the Eukaryotic SAR Clade: Illuminating the Darkness Between Morphology and Molecular Data. BioEssays, 2018, 40, e1700198.	2.5	43
10	The Chara Genome: Secondary Complexity and Implications for Plant Terrestrialization. Cell, 2018, 174, 448-464.e24.	28.9	420
11	Ecological interactions and coexistence are predicted by gene expression similarity in freshwater green algae. Journal of Ecology, 2017, 105, 580-591.	4.0	25
12	Major transitions in dinoflagellate evolution unveiled by phylotranscriptomics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E171-E180.	7.1	201
13	Land Plant Model Systems Branch Out. Cell, 2017, 171, 265-266.	28.9	13
14	Complex Ancestries of Isoprenoid Synthesis in Dinoflagellates. Journal of Eukaryotic Microbiology, 2016, 63, 123-137.	1.7	17
15	A Nutshell Guide to the Changing Biological Sciences. BioScience, 2016, 66, 253-254.	4.9	0
16	Transcriptome Profiling of the Green Alga <i>Spirogyra pratensis</i> (Charophyta) Suggests an Ancestral Role for Ethylene in Cell Wall Metabolism, Photosynthesis, and Abiotic Stress Responses. Plant Physiology, 2016, 172, 533-545.	4.8	52
17	Evolutionary relatedness does not predict competition and co-occurrence in natural or experimental communities of green algae. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20141745.	2.6	26
18	Conservation of ethylene as a plant hormone over 450 million years of evolution. Nature Plants, 2015, 1, 14004.	9.3	207

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19	Phylogenomic analysis of <i>Emiliana huxleyi</i> provides evidence for haptophyte–stramenopile association and a chimeric haptophyte nuclear genome. <i>Marine Genomics</i> , 2015, 21, 31-42.	1.1	8
20	Spatially heterogeneous impact of climate change on small mammals of montane California. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20141857.	2.6	103
21	Evaluation of BLAST-based edge-weighting metrics used for homology inference with the Markov Clustering algorithm. <i>BMC Bioinformatics</i> , 2015, 16, 218.	2.6	18
22	Dinoflagellate Gene Structure and Intron Splice Sites in a Genomic Tandem Array. <i>Journal of Eukaryotic Microbiology</i> , 2015, 62, 679-687.	1.7	18
23	The Evolutionary Origin of a Terrestrial Flora. <i>Current Biology</i> , 2015, 25, R899-R910.	3.9	284
24	An Evolutionary Perspective on the Plant Hormone Ethylene. , 2015, , 109-134.		4
25	Genetic Analysis of <i>DEFFECTIVE KERNEL1</i> Loop Function in Three-Dimensional Body Patterning in <i>Physcomitrella patens</i> . <i>Plant Physiology</i> , 2014, 166, 903-919.	4.8	40
26	Dinoflagellate phylogeny revisited: Using ribosomal proteins to resolve deep branching dinoflagellate clades. <i>Molecular Phylogenetics and Evolution</i> , 2014, 70, 314-322.	2.7	70
27	Directional Auxin Transport Mechanisms in Early Diverging Land Plants. <i>Current Biology</i> , 2014, 24, 2786-2791.	3.9	113
28	Metatranscriptome profiling of a harmful algal bloom. <i>Harmful Algae</i> , 2014, 37, 75-83.	4.8	45
29	New phylogenetic hypotheses for the core Chlorophyta based on chloroplast sequence data. <i>Frontiers in Ecology and Evolution</i> , 2014, 2, .	2.2	23
30	Pan genome of the phytoplankton <i>Emiliana</i> underpins its global distribution. <i>Nature</i> , 2013, 499, 209-213.	27.8	448
31	Origin and evolution of PIN auxin transporters in the green lineage. <i>Trends in Plant Science</i> , 2013, 18, 5-10.	8.8	109
32	Conserved and Diversified Gene Families of Monovalent Cation/H ⁺ Antiporters from Algae to Flowering Plants. <i>Frontiers in Plant Science</i> , 2012, 3, 25.	3.6	192
33	Molecular Diversity of the Syndinean Genus <i>Euduboscquella</i> Based on Single-Cell PCR Analysis. <i>Applied and Environmental Microbiology</i> , 2012, 78, 334-345.	3.1	40
34	Origin of strigolactones in the green lineage. <i>New Phytologist</i> , 2012, 195, 857-871.	7.3	258
35	Broad Phylogenomic Sampling and the Sister Lineage of Land Plants. <i>PLoS ONE</i> , 2012, 7, e29696.	2.5	234
36	Phylogeny and Molecular Evolution of the Green Algae. <i>Critical Reviews in Plant Sciences</i> , 2012, 31, 1-46.	5.7	723

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37	Revision of the Family <i>Duboscquellidae</i> with Description of <i>Duboscquella crenulata</i> n. gen., n. sp. (Dinoflagellata, Tj ETQq1 1 0.784314 rgBTJ/Overlock 10 Tf 50 Kofoid & Campbell. Journal of Eukaryotic Microbiology, 2012, 59, 1-11.	1.7	36
38	Ultrastructure of <i>Amoebophrya</i> sp. and its Changes during the Course of Infection. Protist, 2012, 163, 720-745.	1.5	64
39	Dynamics of Actin Evolution in Dinoflagellates. Molecular Biology and Evolution, 2011, 28, 1469-1480.	8.9	28
40	Evaluating short-read sequence data from the highly redundant, novel transcriptome of <i>Polarella glacialis</i> . Genome Biology, 2011, 12, .	9.6	0
41	Alveolate Phylogeny Inferred using Concatenated Ribosomal Proteins. Journal of Eukaryotic Microbiology, 2011, 58, 223-233.	1.7	49
42	Plants. Current Biology, 2011, 21, R417-R422.	3.9	15
43	Evolution of light-harvesting complex proteins from Chl c-containing algae. BMC Evolutionary Biology, 2011, 11, 101.	3.2	44
44	Uncovering the evolutionary origin of plant molecular processes: comparison of <i>Coleochaete</i> (Coleochaetales) and <i>Spirogyra</i> (Zygnematales) transcriptomes. BMC Plant Biology, 2010, 10, 96.	3.6	91
45	Multigene Phylogeny of the Green Lineage Reveals the Origin and Diversification of Land Plants. Current Biology, 2010, 20, 2217-2222.	3.9	178
46	<i>Tintinnophagus acutus</i> n. g., n. sp. (Phylum Dinoflagellata), an Ectoparasite of the Ciliate <i>Tintinnopsis cylindrica</i> Daday 1887, and Its Relationship to <i>Duboscquodinium collini</i> GrassÃ© 1952. Journal of Eukaryotic Microbiology, 2010, 57, 468-482.	1.7	34
47	Empowering 21st Century Biology. BioScience, 2010, 60, 923-930.	4.9	24
48	Molecular phylogeny of ocelloid-bearing dinoflagellates (Warnowiaceae) as inferred from SSU and LSU rDNA sequences. BMC Evolutionary Biology, 2009, 9, 116.	3.2	54
49	PHYLOGENY OF FOUR DINOPHYCEAN GENERA (DINOPHYCEAE, DINOPHYSALES) BASED ON rDNA SEQUENCES FROM SINGLE CELLS AND ENVIRONMENTAL SAMPLES ¹ . Journal of Phycology, 2009, 45, 1163-1174.	2.3	33
50	PHYLOGENY OF THE CONJUGATING GREEN ALGAE BASED ON CHLOROPLAST AND MITOCHONDRIAL NUCLEOTIDE SEQUENCE DATA ¹ . Journal of Phycology, 2008, 44, 467-477.	2.3	80
51	A HYPOTHESIS FOR PLASTID EVOLUTION IN CHROMALVEOLATES ¹ . Journal of Phycology, 2008, 44, 1097-1107.	2.3	99
52	Patterns of cell division in the filamentous Desmidiaceae, close green algal relatives of land plants. American Journal of Botany, 2008, 95, 643-654.	1.7	21
53	The tiny eukaryote <i>Ostreococcus</i> provides genomic insights into the paradox of plankton speciation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7705-7710.	7.1	563
54	The Origin and Evolution of Dinoflagellates. , 2007, , 191-205.		19

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55	Sorting wheat from chaff in multi-gene analyses of chlorophyll c-containing plastids. <i>Molecular Phylogenetics and Evolution</i> , 2007, 44, 885-897.	2.7	41
56	Retention of transcriptionally active cryptophyte nuclei by the ciliate <i>Myrionecta rubra</i> . <i>Nature</i> , 2007, 445, 426-428.	27.8	193
57	Plastid Genes in a Non-Photosynthetic Dinoflagellate. <i>Protist</i> , 2007, 158, 105-117.	1.5	90
58	In the shadow of giants. <i>Systematics Association Special Volume</i> , 2007, , 155-169.	0.2	8
59	Rate Variation as a Function of Gene Origin in Plastid-Derived Genes of Peridinin-Containing Dinoflagellates. <i>Journal of Molecular Evolution</i> , 2006, 62, 42-52.	1.8	18
60	Heterotachy Processes in Rhodophyte-Derived Secondhand Plastid Genes: Implications for Addressing the Origin and Evolution of Dinoflagellate Plastids. <i>Molecular Biology and Evolution</i> , 2006, 23, 1504-1515.	8.9	50
61	New Efficient Algorithm for Modeling Partial and Complete Gene Transfer Scenarios. , 2006, , 341-349.		8
62	PHYLOGENY OF SPIROGYRA AND SIROGONIUM (ZYGNEMATOPHYCEAE) BASED ON RBCL SEQUENCE DATA1. <i>Journal of Phycology</i> , 2005, 41, 1055-1064.	2.3	26
63	Chlorophyll c-Containing Plastid Relationships Based on Analyses of a Multigene Data Set with All Four Chromalveolate Lineages. <i>Molecular Biology and Evolution</i> , 2005, 22, 1772-1782.	8.9	86
64	The Complete Plastid Genome Sequence of the Haptophyte <i>Emiliana huxleyi</i> : a Comparison to Other Plastid Genomes. <i>DNA Research</i> , 2005, 12, 151-156.	3.4	86
65	The Complete Mitochondrial Genome Sequence of the Haptophyte <i>Emiliana huxleyi</i> and its Relation to Heterokonts. <i>DNA Research</i> , 2004, 11, 1-10.	3.4	53
66	The Complete Mitochondrial Genome Sequence of the Haptophyte <i>Emiliana huxleyi</i> and its Relation to Heterokonts (Supplement). <i>DNA Research</i> , 2004, 11, 67-68.	3.4	15
67	Dinoflagellate Expressed Sequence Tag Data Indicate Massive Transfer of Chloroplast Genes to the Nuclear Genome. <i>Protist</i> , 2004, 155, 65-78.	1.5	154
68	Highly Divergent SSU rRNA Genes Found in the Marine Ciliates <i>Myrionecta rubra</i> and <i>Mesodinium pulex</i> . <i>Protist</i> , 2004, 155, 347-359.	1.5	60
69	The Genomic Palimpsest: Genomics in Evolution and Ecology. <i>BioScience</i> , 2004, 54, 991.	4.9	7
70	Charophyte algae and land plant origins. <i>Trends in Ecology and Evolution</i> , 2004, 19, 661-666.	8.7	233
71	(1569-1570) Proposals to conserve the name <i>Coleochaete soluta</i> against <i>C. prostrata</i> and the name <i>C. orbicularis</i> against <i>Phyllactidium pulchellum</i> with a note on the name <i>C. nitellarium</i> (Coleochaetaceae) Tj ETQq1 1 00784314 rBT /Over	0.7	14
72	The Phylogeny of Rosoideae (Rosaceae) Based on Sequences of the Internal Transcribed Spacers (ITS) of Nuclear Ribosomal DNA and the trnL/F Region of Chloroplast DNA. <i>International Journal of Plant Sciences</i> , 2003, 164, 197-211.	1.3	126

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73	Novel Exchangeable Effector Loci Associated with the <i>Pseudomonas syringae</i> hrp Pathogenicity Island: Evidence for Integron-Like Assembly from Transposed Gene Cassettes. <i>Molecular Plant-Microbe Interactions</i> , 2003, 16, 495-507.	2.6	58
74	PHYLOGENY OF THE GENUS COLEOCHAETE (COLEOCHAETALES, CHAROPHYTA) AND RELATED TAXA INFERRED BY ANALYSIS OF THE CHLOROPLAST GENE <i>rbcl 1</i> . <i>Journal of Phycology</i> , 2002, 38, 394-403.	2.3	60
75	MOLECULAR AND MORPHOLOGICAL DATA IDENTIFY A CRYPTIC SPECIES COMPLEX IN ENDOPHYTIC MEMBERS OF THE GENUS COLEOCHAETE B. (CHAROPHYTA: COLEOCHAETACEAE) 1. <i>Journal of Phycology</i> , 2002, 38, 1213-1221.	2.3	20
76	An artifact in the small subunit rDNA sequence of <i>Chaetosphaeridium globosum</i> (Charophyceae, Tj ETQq0 0 0 rgBT/Overlock ₃ 10 Tf 50 6	2.3	3
77	The Closest Living Relatives of Land Plants. <i>Science</i> , 2001, 294, 2351-2353.	12.6	521
78	Phylogenetic Analyses Indicate that the 19- ² Hexanoyloxy-fucoanthin-Containing Dinoflagellates Have Tertiary Plastids of Haptophyte Origin. <i>Molecular Biology and Evolution</i> , 2000, 17, 718-729.	8.9	226
79	Heteroduplex mobility assay-guided sequence discovery: Elucidation of the small subunit (18S) rDNA sequences of <i>Pfiesteria piscicida</i> and related dinoflagellates from complex algal culture and environmental sample DNA pools. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 4303-4308.	7.1	127
80	Griffins and Chimeras: Evolution and Horizontal Gene Transfer. <i>BioScience</i> , 2000, 50, 85.	4.9	1
81	Tracing the Thread of Plastid Diversity through the Tapestry of Life. <i>American Naturalist</i> , 1999, 154, S164-S177.	2.1	354
82	Response from Roos and Delwiche. <i>Trends in Microbiology</i> , 1998, 6, 345-346.	7.7	12
83	The Origin and Evolution of Plastids and Their Genomes. , 1998, , 375-409.		48
84	Molecular Systematics of the Green Algae. , 1998, , 508-540.		41
85	The origin of plastids and their spread via secondary symbiosis. <i>Plant Systematics and Evolution Supplementum = Entwicklungsgeschichte Und Systematik Der Pflanzen Supplementum</i> , 1997, , 53-86.	1.5	123
86	A Plastid of Probable Green Algal Origin in Apicomplexan Parasites. <i>Science</i> , 1997, 275, 1485-1489.	12.6	726
87	Rampant horizontal transfer and duplication of rubisco genes in eubacteria and plastids. <i>Molecular Biology and Evolution</i> , 1996, 13, 873-882.	8.9	293
88	Perspectives on archaeal diversity, thermophily and monophyly from environmental rRNA sequences.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 9188-9193.	7.1	622
89	Second-hand chloroplasts and the case of the disappearing nucleus.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 7432-7435.	7.1	113
90	Phylogenetic Perspective on Microbial Life in Hydrothermal Ecosystems, Past and Present. <i>Novartis Foundation Symposium</i> , 1996, 202, 24-39.	1.1	6

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91	Phylogenetic Analysis of tufA Sequences Indicates a Cyanobacterial Origin of All Plastids. <i>Molecular Phylogenetics and Evolution</i> , 1995, 4, 110-128.	2.7	127
92	Phylogenetic Relationships of the "Green Algae" and "Bryophytes". <i>Annals of the Missouri Botanical Garden</i> , 1994, 81, 451.	1.3	176
93	Gene phylogenies and the endosymbiotic origin of plastids. <i>BioSystems</i> , 1992, 28, 75-90.	2.0	137
94	The Biochemistry of Isoprene Emission from Leaves during Photosynthesis. , 1991, , 153-184.		63
95	Fractionation of Carbon Isotopes during Biogenesis of Atmospheric Isoprene. <i>Plant Physiology</i> , 1991, 97, 463-466.	4.8	44
96	Lignin-Like Compounds and Sporopollenin Coleochaete, an Algal Model for Land Plant Ancestry. <i>Science</i> , 1989, 245, 399-401.	12.6	176